Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (previously presented) A gelatin-based substrate for fabricating protein arrays, the substrate comprising: a support having a coating thereon comprising gelatin and a trifunctional compound A-L-B affixed in said gelatin; wherein A is a functional group capable of interacting with the gelatin; L is a linking group capable of interacting with A and with B; and B is a functional group capable of interacting with a protein capture agent, wherein A may be the same or different from B.
- 2. (original) The gelatin-based substrate of claim 1 wherein the interaction between the gelatin and A is a physical binding or a chemical reaction.
- 3. (original) The gelatin-based substrate of claim 1 wherein the interaction between the protein capture agent and B is a physical binding or a chemical reaction.
- 4. (original) The gelatin-based substrate of claim 1 wherein either A or B, or both, is aldehyde, epoxy, hydrazide, vinyl sulfone, succinimidyl ester, carbodiimide, maleimide, dithio, iodoacetyl, isocyanate, isothiocyanate, or aziridine.
- 5. (original) The gelatin-based substrate of claim 1 wherein B is an affinity tag capable of interacting non-covalently with a protein capture agent that is to be immobilized onto the substrate.
- 6. (original) The gelatin-based substrate of claim 1 wherein B is streptavidin, biotin, glutathione-S-transferase, glutathione, or histidine tags.

- 7. (original) The gelatin-based substrate of claim 1 wherein L is a diradical of such a length that the shortest through-bond path between the ends that connect A to B is not greater than 10 atoms.
- 8. (original) The substrate of claim 1 wherein the gelatin is alkaline pretreated.
- 9. (original) The substrate of claim 1 wherein the gelatin is pig gelatin or fish gelatin.
- 10. (original) The substrate of claim 1 wherein the gelatin coverage is 0.2 to 100 grams per square meter.
- 11. (original) The substrate of claim 1 wherein the gelatin coverage is 10 to 50 grams.
- 12. (currently amended) A method of making a gelatin-based substrate for fabricating protein arrays comprising the steps of:
 - --providing a support;
 - -- coating on the support a composition containing gelatin;
- --affixing to a surface of the gelatin a trifunctional compound A-L-B₃; wherein A is a functional group capable of interacting with the gelatin₃; L is a linking group capable if interacting with A and with B₄; and B is a functional group capable of interacting with a protein capture agent; wherein A may be the same or different from B, <u>and</u> wherein the trifunctional compound ALB is affixed while coating the gelatin on the substrate.
 - 13. (canceled)
 - 14. (canceled)

- 15. (original) The method of claim 12 wherein the protein capture agent is antibody, protein scaffold, peptide, nucleic acid ligand, or a molecular imprinting polymer.
- 16. (currently amended) A method of making a substrate having a protein capture agent affixed onto a surface comprising the steps of:
 - -- providing a substrate comprising gelatin;
- -- affixing in to a surface of the gelatin a trifunctional compound A-L-B, wherein A and B are each independently selected from is a functional group capable of interacting with the gelatin and a protein capture agent, and L is a linking group capable if interacting with A and with B; and B is a functional group capable of interacting with a protein capture agent; and
 - --bringing said surface of the gelatin in contact with a protein.
- 17. (currently amended) A substrate comprising gelatin, a trifunctional compound A-L-B affixed in the gelatin, and a plurality of protein capture agents attached to the gelatin by means of a through the trifunctional compound A-L-B, wherein A and B are each independently selected from is a functional group capable of interacting with the gelatin and a protein capture agent, and; L is a linking group capable if interacting with A and with B; and B is a functional group attached to the a protein capture agent.
- 18. (original) The substrate of claim 17 wherein the protein capture agent is an antibody, protein scaffold, peptide, nucleic acid ligand, or a molecular imprinting polymer.
- 19. (currently amended) A method of making a gelatin-based substrate for fabricating protein arrays comprising the steps of:
 - --providing a support;
 - -- coating on the support a composition containing gelatin;
- --affixing in to a surface of the gelatin a trifunctional compound A-L-B_a; wherein A and B are each independently selected from is a functional group capable of interacting with the gelatin and a protein capture agent, and; L is a

linking group capable if interacting with A and with B; and B is a functional group capable of interacting with a protein capture agent; wherein A may be the same or different from B, and wherein the trifunctional compound ALBA-L-B is affixed after coating the gelatin on the substrate.

20. (previously presented) The method of claim 19 wherein the protein capture agent is antibody, protein scaffold, peptide, nucleic acid ligand, or a molecular imprinting polymer.